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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/775,875	02/10/2004	Miroslav Blumenberg	71369.376US3 and PFI-011D	1177
	7590 03/13/200 LER PICKERING HA	EXAMINER		
WILMER CUTLER PICKERING HALE AND DORR LLP 60 STATE STREET POSTON MA 02100			WHISENANT, ETHAN C	
BOSTON, MA 02109		ART UNIT	PAPER NUMBER	
			1634	
SHORTENED STATUTORY	PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	
3 MON	NTHS	03/13/2007	07 ELECTRONIC	

## Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 03/13/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

teresa.carvalho@wilmerhale.com tina.dougal@wilmerhale.com michael.mathewson@wilmerhale.com

		Application No.	Applicant(s)		
Office Action Summary		10/775,875	BLUMENBERG, MIROSLAV		
		Examiner	Art Unit		
_		Ethan Whisenant, Ph.D.	1634		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D. (35 U.S.C. & 133).		
Status					
2a)⊠ —	Responsive to communication(s) filed on 22 De This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Dispositi	on of Claims	·			
4)⊠ 5)□ 6)⊠ 7)□ 8)□ Applicati 9)□ 10)⊠	Claim(s) 60-64 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 60-64 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or on Papers  The specification is objected to by the Examine The drawing(s) filed on 10 February 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement of the correction of the oath or declaration is objected to by the Examine Replacement of the correction of the oath or declaration is objected to by the Examine Replacement of the correction of the oath or declaration is objected to by the Examine Replacement of the oath or declaration is objected to by the Examine Replacement of the oath or declaration is objected to by the Examine Replacement of the oath or declaration is objected to by the Examine Replacement of the oath or declaration is objected to by the Examine Replacement of the oath or declaration is objected to by the Examine Replacement of the oath or declaration is objected to by the Examine Replacement of the oath or declaration is objected to by the Examine Replacement of the oath or declaration is objected to by the Examine Replacement of the oath or declaration is objected to by the Examine Replacement of the oath or declaration is objected to by the Examine Replacement of the oath or declaration is objected to by the Examine Replacement of the oath or declaration is objected to by the Examine Replacement of the oath or declaration is objected to by the Examine Replacement of the oath	vn from consideration.  r election requirement.  r.  e: a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. Section is required if the drawing(s) is objected to the drawing(s)	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachmen	t(s)				
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite		

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#### FINAL ACTION

1. The applicant's response (filed 22 DEC 06) to the Office Action has been entered. Claim(s) 60-64 is/are pending. Rejections and/or objections not reiterated from the previous office action are hereby withdrawn. The following rejections and/or objections are either newly applied or reiterated. They constitute the complete set presently being applied to the instant application.

### 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that may form the basis for rejections set forth in this Office action:

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 3. The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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### Claim Rejections under 35 USC § 102

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- 4. The rejection of Claim(s) 60-64 under 35 U.S.C. 102(e) as being anticipated by Makrigiorgus [US 6,174,680(2001)] is maintained for the reason of record.
- 5. The rejection of Claim(s) 60-64 under 35 U.S.C. 102(b) as being anticipated by Affymatrix Technical Note (2004) is maintained for the reason of record.

#### RESPONSE TO APPLICANT'S AMENDMENT/ ARGUMENTS

6. Applicant's arguments with respect to the claimed invention have been fully and carefully considered but are not deemed to be persuasive. The applicant has traversed the 102(e) and 102(b) rejections essentially arguing that the Hu6800 array does not fall within the scope encompassed by Claims 60-64. The examiner respectfully disagrees and points to the applicant's specification p.159, beginning at about line 21 wherein the applicant teaches using the Hu6800 array to practice his method. Furthermore, structurally the composition of matter recited in Claims 60-64 is identical to that of the Hu6800 gene expression array manufactured by Affymetrix.

Claim 60 is drawn to a composition of matter comprising a plurality of nucleic acid molecules capable of detecting altered expression due to exposure to ultraviolet radiation, the nucleic acid molecules being selected from the groups consisting of:

- (i) at least one nucleic acid molecule encoding a transcription factor protein, at least one nucleic acid molecule encoding a signal transducing protein, and at least one nucleic acid molecule encoding a mitochondrial protein;
- (ii) at least one nucleic acid molecule encoding a secreted, growth factor, at least one nucleic acid molecule encoding a cytokine, and at least one nucleic acid molecule encoding a chemokine; and

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(iii) at least one nucleic acid molecule encoding an actin-binding protein, at least one nucleic acid molecule encoding a desmosomal protein, and at least one nucleic acid molecule encoding a tubulin protein; and a substrate suitable for binding the nucleic acid molecules. In support of his position the examiner has referred to the file Hu6800 annotations, CSV format (3.1 MB, 11/15/06) which can be found at http://www.affymetrix.com/support/technical/annotationfilesmain.affx

The Hu6800 array comprises a probe set (i.e. AF005887 – No. 97 on the list) for activating transcription factor 6 (i.e. a transcription factor protein), a probe set (i.e. XO4526 – No. 5548 on the list) for guanine nucleotide binding protein (G protein), beta polypeptide 1 (i.e. a signal transducing protein), a probe set (i.e. XO5409 – No. 5570 on the list) for aldehyde dehydrogenase 2 family - mitochondrial (i.e. a mitochondrial protein), a probe set (i.e. J00148 – No. 1441 on the list) for Human Growth hormone 1 (i.e. a secreted growth factor), a probe set (i.e. JOO207\_rna2\_at – No.1442 on the list) for Interferon alpha 2 (i.e. a cytokine), a probe set (i.e. AB002409\_at – No.34 on the list) for chemokine(C-C motif) ligand 21 (i.e. a chemokine), a probe set (i.e. M62994\_at – No. 2992 on the list) for filamin B, beta (actin binding protein 278) (i.e. an actin – binding protein), a probe set (i.e. D31784\_at – No. 441 on the list) for cadherin-6 (i.e. a desmosomal protein), and a probe set (i.e. J00314\_at – No. 1454 on the list) for human tubulin–beta (i.e. a tubulin protein). Finally, these probes are arrayed on a glass slide (i.e. a substrate suitable for binding the nucleic acid molecules).

What structural limitation(s) is/are present in Claim 60 which is/are not expressly or inherently described by Makrigiorgus [US 6,174,680(2001)] or Affymatrix Technical Note (2004) both of which teach the Hu6800 array? Admittedly, the references cited do not teach using the Hu6800 array as recited in Claims 60-64, however, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. *In re Casey*, 152 USPQ 235 (CCPA 1967); *In re Otto*, 136 USPQ 458, 459 (CCPA 1963). Clearly, the

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Hu6800 array is capable of performing the intended use as it is expression array disclosed by the applicant as useful in carrying out his method.

#### CONCLUSION

- 7. Claim(s) 60-64 is/are rejected and/or objected to for the reason(s) set forth above.
- 8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ethan Whisenant, Ph.D. whose telephone number is (571) 272-0754. The examiner can normally be reached Monday-Friday from 8:30AM - 5:30PM EST or any time via voice mail. If repeated attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla, can be reached at (571) 272-0735.

The Central Fax number for the USPTO is (571) 273-8300. Please note that the faxing of papers must conform with the Notice to Comply published in the Official Gazette, 1096 OG 30 (November 15, 1989).

ETHAN WHISENANT PRIMARY EXAMINER

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